

WHAT IS CLAIMED IS:

1. An antireflection film forming method for optical fiber comprising:

dipping an optical fiber in a coating solution having a film forming material dissolved therein; and

forming an antireflection film on the end surface of the optical fiber.

2. The antireflection film forming method for optical fiber according to claim 1 wherein the pulling speed is changed, when the optical fiber is pulled up from the coating solution, to adjust the reflection reducing wavelength band of the antireflection film to be formed on the end surface of the optical fiber.

3. The antireflection film forming method for optical fiber according to claim 1 wherein the pulling speed is changed, when the optical fiber is pulled up from the coating solution, to adjust the reflectance of the antireflection film to be formed on the end surface of the optical fiber.

4. The antireflection film forming method for optical fiber according to any one of claims 1-3 wherein the film forming material is a fluorine-containing compound.

5. The antireflection film forming method for optical fiber according to any one of claims 1-3 wherein the angle of the end surface of the optical fiber to the level of the coating solution is changed, when the optical fiber is pulled up from the coating solution, to adjust the reflection reducing wavelength band of the antireflection film to be formed on the end surface of the optical fiber.

6. The antireflection film forming method for optical fiber according to any one of claims 1-3 wherein the angle of the end surface of the optical fiber to the level of the coating solution is changed, when the optical fiber is

pulled up from the coating solution, to adjust the reflectance of the antireflection film to be formed on the end surface of the optical fiber.

7. An optical fiber having an antireflection film formed on the end surface, the antireflection film being formed by dipping.

8. The optical fiber according to claim 7 wherein the film forming material is a fluorine-containing compound.

9. The optical fiber according to claim 7 wherein the film thickness of the antireflection film is uneven.

10. The optical fiber according to claim 7 wherein the film thickness of the antireflection film is even.